## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit:

Steven M. Martin, et al.

Examiner:

Serial No.:

10/737,422

Filed:

December 16, 2003

For:

MICROSYSTEM FOR DETERMINING CLOTTING TIME

OR BLOOD AND LOW-COST, SINGLE-USE DEVICE FOR

**USE THEREIN** 

Attorney Docket No.: UOM 0282 PUSP

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the references listed and identified on the attached Forms PTO/SB08A and/or SB08B are being submitted herewith for consideration by the Examiner.

While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the reference(s) are "material" as defined under 37 C.F.R. § 1.56(b).

CERTIFICATE OF MAILING U	JNDER 37 C.F.R.	§ 1.8
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Atty Dkt No. UOM 0282 PUSP

S/N: 10/737,422

If the filing date of this application is on or before June 30, 2003, a copy of each reference listed on the attached Forms PTO/SB08A and/or SB08B is included herewith. If this application was filed after June 30, 2003, copies of any cited U.S. patent/application references have not been included. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

Steven M. Martin, et al.

By:

David R. Syrowik Reg. No. 27,956

Attorney/Agent for Applicant

Date: March 19, 2004

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Substitute to	r Form 1449A/PTO			Complete if Known		
				Application Number	10/737,422	
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I	EMENT BY	APF	PLICANT	First Named Inventor	Steven M. Martin, et al.	
				Group Art Unit		
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Sheet	1	of	3	Attorney Docket Number	UOM 0282 PUSP	

	U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.1	U.S. PATENT DO	OCUMENT Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,105,411		Biver	08/08/1978	
		4,125,327		Margolis	11/14/1978	
		4,797,369		Mintz	01/10/1989	
		4,876,069		Jochimsen	10/24/1989	
		4,964,728		Kloth, et al.	10/23/1990	
		5,039,617		McDonald, et al.	08/13/1991	
		5,167,145		Butler, et al.	12/01/1992	
		5,504,011		Gavin, et al.	04/02/1996	
		5,908,786		Moreno, et al.	06/01/1999	
		6,066,504		Jina	05/23/2000	
		6,438,498		Opalsky, et al.	08/20/2002	
		6,448,024		Bruegger	09/10/2002	
		6,521,182		Shartle, et al.	02/18/2003	
		6,555,064		Baugh, et al.	04/29/2003	
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FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite	Office <sup>3</sup>	Foreign Patent Doo	cument Kind Code <sup>5</sup> (if known)		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLASSIVE STATEMENT BY APPLICANT

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Application Number 10/737,422

Filing Date December 16, 2003

First Named Inventor Steven M. Martin, et al.

Group Art Unit

Examiner Name

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	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Initials Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²			
i		CARVILLE, D.G., ET AL., "Coagulation Testing Part 2: The Quest to Optimize Near-Patient Analyzers," IVD Technology Magazine, Sept. 1998, pp. 1-10.	•			
		SEEGERS, WALTER ED., "Blood Clotting Enzymology," Academic Press, New York, NY 1967, pp. 1-21.				
		WINTROBE, MAXWELL M., ED., "Blood, Pure and Eloquent," McGraw-Hill Book Co., New York, NY, 1980, Chapter 18, pp. 601-656.				
	-	DAILEY, JOHN F., "Blood," Medical Consulting Group, Arlington, MA, 1998, Chapter 12, pp. 190-209.				
		ALBRITTION, E.C., ED., "Standard Values in Blood," W.B. Sanders Co., Philadelphia, PA, 1952, Chapter 13, pp 15-16.				
		SCHMER, GOTTFRIED, ET AL., EDS., "Coagulation Current Research and Clinical Applications," Chapter on Modern Concept of Blood Coagulation, Academic Press, New York, NY, 1973, pp. 3-15.				
		BLAIR, G.W. SCOTT, ET AL., "An Introduction to Biorheology," Elsevier Scientific Publishing Co., New York, NY, 1974, Chapter VI, pp. 62-83.				
		KAIBARA, M., "Rheological Studies on Blood Coagulation and Network Formation of Fibrin," Polymer, Gel, and Networks, Vol. 2, No. 1, 1994, pp. 1-28.				
		HRNCIR, E., ET AL., "Surface Tension of Blood," Physiological Research, Vol. 46, No. 4, Aug. 1997, pp. 319-321.				
		BARD, A., ET AL., "Electrochemical Methods," John Wiley and Sons, New York, NY, 1980, pp. 6-8.				
		BLAKE, L.E., "Principles of the Impedance Technique," IEEE Eng. in Medicine and Biology Magazine, Vol. 8, No. 1, Mar. 1989, pp. 11-15.	e,			

Examiner	Date	
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Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>			
		OLSSON, R.H., III, ET AL., "Silicon Neural Recording Arrays with On-Chip Electronics for In-Vivo Data Acquisition," IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine and Biology, pp. 237-240, Poster 114, May 2002.				
	•	LORENZ, H., ET AL., "High-Aspect Ratio, Ultrathick, Negative-Tone Near-UV Photoresist and its Applications for MEMS," Sensors and Actuators A: Physical, Vol. 64, No. 1, Jan. 1998, pp. 33-39.				
		NOLAN, TROY C., ET AL., Direct Down-Conversion of Passband Signals Using MEMS Filters And Sub-Sampling, IEEE, 1999, pp. 1896-1899	,			
		NELSON, D.T., ET AL., High-Dynamic Range Chanelized MEMS Equalizing Filter, OFC 2002, ThCC3, pp. 586-588				
		http://www.helena.com				
		http://www.istat.com				
		http://www.ilus.com				
		http://www.itcmed.com				
		http://www.uscid.org/~sienco/				

Examiner	Date	
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